

Missouri Department of Natural Resources Water Protection Program

Nonpoint Source Implementation (319) 2004 Grant Application Instructions

Missouri Department of Natural Resources Nonpoint Source Implementation (319) Grant Application Checklist February 2004

Applications for funding under Section 319 Nonpoint Source funds, for federal Fiscal Year 2004, must be postmarked to the Missouri Department of Natural Resources (DNR) no later than July 1, 2004.

Applicants must submit 20 copies of the application packet. The packet must include the following:

- 1. Completed and signed application form. Use only the form provided by DNR.
- 2. Copy of 501(c) documentation, if applicable. (Item 4 on application form.)
- 3. Expanded budget. (Item 12 on application form.)
- 4. Legible map of the watershed, showing the area to be addressed by the project. (Item 16 on application form.)
- 5. Letters of support, if applicable. Letters should indicate the partner's intended contribution to the project. (Item 26 on application form.)

Missouri Department of Natural Resources Nonpoint Source Implementation (319) Grants APPLICATION INSTRUCTIONS

Applications must be typed and submitted on the attached application form or a copy of this form only. All blank spaces must be completed. Enter "N/A" for any item that does not apply. Do not add or delete any pages or parts of the application form. Due to the limited time available during the application review process, please check that your application is complete and concise or it may be returned to you for more information. Do not feel obligated to fill the entire space provided for each item.

Each item in the application is numbered. Numbers correspond to the instructions below:

- 1. State the name of the project. The name should be brief, but clearly identify the type of project.
- 2. List the name of the sponsoring organization. If it is a public agency, include the name of the branch, section, division or office as appropriate.
- 3. Enter the mailing address of the sponsoring organization.
- 4. Provide the sponsoring organization's tax payer identification number. If the entity has 501(c) status, include that documentation as an attachment to your application.
- 5. Indicate the organizational type that best describes the sponsor.
- 6. State the name, address, affiliation, telephone number, FAX and e-mail address of the individual most familiar with the project proposal and able to respond to questions about the project application. List only one (1) contact person.
- 7. Indicate (month, day and year) the expected start and end dates of the project. The target date for beginning projects should be no earlier than July 1 of the funding year for which you are applying. The length of your project should not exceed four (4) years.
- 8. Identify the watershed in which the project will take place. Name the river, lake or other waterbody, that will be affected by the proposed project. In addition, provide the 8-, 11- or 14-digit hydrologic unit code. The code can be obtained from the local Soil and Water Conservation District office or at http://maps.cares.missouri.edu/maproom/locationmaps/hu8map.html
- 9. Project cost for 319 funds requested, match funds and other contributions should match the total in the Budget (#17). The required minimum match may be calculated as follows: 40 divided by 60 times the requested federal amount. Please check your calculations! *Remember to show nonfederal support in a ratio of at least 40 percent nonfederal to 60 percent federal 319 funds.*
- 10. An authorized representative of the sponsoring organization MUST sign and date the original application and include his or her telephone number.

11. Budgets should be realistic and complete for the life of the project. Budgets for approved projects may be adjusted later between categories and components as further planning dictates. There will NOT, however, be any later increases to the total award. Remember to show nonfederal support in a ratio of at least 40 percent nonfederal to 60 percent 319 federal grant funds. In other words, for every \$60 of 319 money in the project, a minimum of \$40 nonfederal money must be contributed to the project. However, these matching funds can be provided by in-kind activities such as volunteer time or donated supplies. See Attachment A for more information on issues related to matching funds. See Attachment B for examples of the types of items to include in each of the budget categories.

Any proposed equipment purchases must be itemized. Equipment that costs less than \$5,000 per item should be classified as supplies.

If the sponsor receives more than \$300,000 per year in federal grant funds, funds to support annual audits may be included in a proposal.

If you expect your project to have more than \$25,000 in expenditures per year, you should include costs for hiring an outside, qualified accounting firm to manage record keeping. The requirement for outside accounting management may be waived, subject to DNR review and approval of staff accounting credentials

If your project includes costs for environmental montoring, a quality assurance project plan (QAPP) is required. Preparation and DNR's approval of a QAPP is required prior to reimbursement of any costs incurred for montoring activities falling under these requirements. Time for development of the QAPP can be charged to the project only after an award has been signed by DNR and the sponsoring organization.

Project signs at demonstration sites are required, so budget accordingly.

- 12. Attach two separate detailed budgets a Detailed Budget by Category and a Detailed Budget by Activity. The Detailed Budget by Category should include details related to the budget categories included in #11 (i.e., the federal budget categories such as personnel and contractual). The Detailed Budget by Activity should describe the cost per activity within the project. See Attachment D for examples of both types of detailed budgets.
- 13. Determine if your project is a Clean Lakes activity or classified lake or reservoir and indicate the type of activity. Lake protection and restoration activities may be considered Clean Lakes projects. LWQA is a Lake Water Quality Assessment Project. Phase I is a diagnostic/feasibility study. Phase II is the restoration/implementation project. Phase III is post-restoration monitoring study. See the Request for Proposal (RFP) for detailed information.
- 14. Indicate whether your proposed project will address waters on the 303(d) list. If so, include the relevant information from the list (category, water, etc.) or attach a copy of the appropriate section of the list. The RFP includes a reference to the 2002 list of waters impaired by nonpoint sources on page 6.

Use of the 303(d) list for prioritization is not intended to eliminate potentially worthwhile projects. If your watershed is not included in the listing, describe briefly your reasons for considering it a priority. Include details of nonpoint source (NPS) impacts or threats in the watershed.

- 15. Indicate whether or not a Watershed Plan has been completed, when it was completed using the Key Elements (see Attachment F), and by whom.
- 16. Identify the project location. On a legible map, outline your watershed and include it as part of your application.

Provide relevant information concerning the project size, geographic settings, landowners, land use, and other characteristics that affect the project. Quantify, if possible, cropland, timber, publicly owned areas, farmsteads or landowners, urban or other uses. Provide general information on soils, climate conditions, geologic characteristics, percent impervious area in urban projects, typical cropping patterns, management practices and existing best management practices. If any related projects or activities are occurring in the watershed, describe those and their relationship to the proposed project.

17. Describe the water quality problem in detail. Identify all of the nonpoint source water quality problems in the watershed. Note specific examples of existing and/or historical conditions that have resulted in water quality degradation. Discuss the in-stream or in-lake problem (low dissolved oxygen, sedimentation, aquatic habitat degradation, high levels of pesticides or nutrients, etc.) and describe the watershed conditions responsible for these water quality problems (sheet/rill erosion, stream bank erosion, runoff of farm chemicals and nutrients from crop fields, degradation of riparian zones by livestock, urban runoff from land disturbance activities, etc.). Include references to any available documentation.

Livestock information for the project area should be quantified as completely as possible by type and number, existing facilities, permitted animal wastes facilities, animal waste storage and handling methods, waste land application methods and rates.

Critical areas or problems that have a major impact on the waterbody should be identified. For example: areas with high sediment delivery, livestock access to water resources, intensively cropped land in close proximity to the water resource or urbanizing influences such as increased runoff and pollutants associated from large pavement areas

For non-agricultural sources indicate industrial sources of pollution and impacts of urban or residential areas on water quality.

- 18. Please list all pollutants that will be addressed during the project. If pollutant addressed is sediment or nutrients then a method to quantify load reduction must be applied. Acceptable methods may include RUSLE (for sediment), STEPL or another approved models (refer to #8, Application Criteria in the RFP). NPS staff will work with applicant to select most appropriate method.
- 19. List the NPS category and subcategory impacted. See Attachment D for a list of categories.
- 20. List the Functional category of activity. See Attachment E for a list of categories. Indicate whether or not your proposal is a restoration project addressing the pollutant impacting the waterbody from the 303(d) list. If yes, this project is eligible for incremental funds
- 21. Briefly describe the water quality problem(s), project plan, objectives, products, methods employed, and partnerships in the executive summary. *Methods employed is used to describe the approach selected to address or correct the problems(s), e.g. Educational Program, Types of BMP's installed, and the anticipated life of the BMP's.

22. Describe what the project is going to do to address the water quality problems identified in #21. State concrete, measurable targets to be achieved for the watershed. State the roles and responsibilities of all organizations or agencies involved in the project. Be concise. Include what your organization plans to do to continue the project after the grant has expired. This is an extremely important part of the application! Be sure to clearly answer the questions, "What are you going to do?" "How you will spend the money?" "Who will do the work?" "What are the goals of the project?" Describe why this approach should be effective.

The project objectives are overall goals to have been achieved by the end of the project. They are not the activities undertaken to reach those goals.

Objectives should reflect what can realistically be accomplished within the time frame of the proposed project. Examples of project objectives are: Reduce nitrogen application rates on corn acres by 25%; Control livestock access on 50% of the stream corridor; Restore 2 miles of riparian corridor; Increase pervious area in an urban area by 5%; Provide information transfer to 75% of people in the watershed.

- 23. List in chronological order tasks to be accomplished, project completion dates and which participant(s) are responsible for completion. Designations such as "Month 2" or "3rd quarter" are acceptable. If your proposal is accepted, changes may be made prior to implementation. Include in the schedule a meeting with DNR project management staff and a commitment to provide quarterly and final reports to DNR. If someone other than the sponsor is responsible for a task, it is essential to include a written commitment from that entity with the application.
- 24. Describe the method to be used for evaluating success of the project. Describe the proposed monitoring activities both for water quality and other activities such as changes in land use, changes in use of specific management practices, public outreach activities, etc. Explain why this data is needed and the intended use of this data.

Information/education projects should contain a description of instructional evaluation measures such as pre- and post-surveys that measure knowledge transfer or behavior changes.

For other projects, intensive water monitoring may be used to measure the success of the project if it is comprehensive enough to show water quality improvements or trends. Normally, this requires the existence of pre-project baseline data. A Quality Assurance Project Plan (QAPP) will have to be developed for the project if monitoring is to be done. DNR staff will assist your project with developing this document.

Alternative measures of success may be more practical. Examples of measures that may be used are: before and after photographs, length of streambank stabilized, acres of habitat restored, structures completed, behaviors changed, quantity of nutrients or chemicals not applied or manure properly managed, best management practices (BMP) implementation tracking, change of attitude survey results.

Volunteer monitoring may be established as a part of the project. The parameters sampled can provide some trend data. Contact DNR's volunteer monitoring coordinator at (573) 751-7428 for assistance with this.

- 25. List the products to be produced as a result of the project, such as publications, field days, workshops, news releases or other outreach efforts, QAPP, water quality data, water quality improvements, best management practices applied, etc. The products should be quantified as much as possible and should be realistic. Products must result in water quality improvement. Those projects that result in continued water quality benefits after the life of the project are most desirable. A QAPP is a required product for projects conducting sampling. Be sure to indicate quarterly and final reports as products; they are required of all projects.
- 26. Describe how interested and affected individuals have been involved in the design of the project. Show how the public has been and will be involved in implementation of the project. For watershed and other appropriate projects, an advisory group or steering committee should be formed to review progress and provide local direction and assistance. Describe the educational/outreach activities as well as plans for communicating lessons learned to other areas of the community, watershed, county or state.

Costs Allowable for Matching and Cost Sharing

Using any non-federal sources or program income if permitted by the grant terms and conditions can fulfill cost sharing requirements. Unless authorized by legislation, regulations or the award agreement, costs used to satisfy a grantee's matching requirement may not be derived from federal grants of subgrants from other programs or costs used as match or cost sharing on other grants.

If a cost is related to two or more grants it can be pro-rated among the grants. Any expenditure charged to an approved budget consisting of federal and non-federal shares is considered to be derived from the grant in the same proportion as the percentage of federal/grantee participation (matching ratio) in the overall budget.

Neither grantee-incurred costs nor third-party in-kind contributions count toward satisfying matching or cost-sharing requirements unless the grantee's records can verify them.

Sources of Rules Governing Valuation of Costs

Rules governing the valuation of costs stem from two sources. For grantee-incurred costs, the applicable cost principles govern. For third-party in-kind contributions the rules below apply.

Grantee in-kind contributions are valued as any other grantee cost in accordance with the cost principles whether or not they require a cash outlay; grantee in-kind contributions must be an allowable cost to be counted toward the project. Third-party in-kind contributions, on the other hand, do not represent a cost to the grantee and must be valued according to the following rules.

Standards for Third-Party In-Kind Contributions

Third-party in-kind contributions must be:

- 1. Necessary to accomplish program activities; and
- 2. Allowable if the grantee was required to pay for them. (A third-part in-kind contribution of entertainment, for example, would not count because it would not be allowable if the grantee had incurred the cost.) Simply stated, the rule for valuation of third-part in-kind contributions is "what it would have cost if the grantee had paid for the item or service itself." Several rules apply to valuation of third-party in-kind contributions, which are described below.
 - *Volunteer Services*. Services provided to a grantee by volunteers are valued at rates consistent with those paid by the grantee to its employees performing similar work. If the grantee does not have employees performing similar work, the applicable rates are those paid by other employers for similar work in the labor market in which the grantee competes for services. In either case, a reasonable amount of fringe benefits may be included in the valuation.
 - *Employees of other organizations*. When an employer other than the grantee furnishes at no cost the services of an employee, these services are valued at the employee's regular rate of pay, provided they are in the same line of work for which the employee normally is paid. The employer's overhead costs cannot be made part of the valuation.

Federal rules diverge as to whether fringe benefits can be included in the valuation, depending on the nature of the grantee organization. The government-wide common rule for state and local government grant administration prohibits the inclusion of the employee's fringe benefits. However, OMB Circular A-110 permits the inclusion of fringe benefits that are reasonable, allowable and allocable.

If the services to be provided by the "lent" employee are in a different line of work, then the rules for volunteer services apply. In either case, donated services are valued at the rate for "similar work." Therefore, if a doctor volunteers to drive a bus on weekends for a grant-supported program, his time would be valued at the rate of a bus driver, not a doctor. If, on the other hand, he donates necessary medical services to the project, his time would be valued at the rate of a doctor.

- Donated supplies and loaned equipment or space. If a third party donates supplies, the contribution is valued at the market value of the supplies at the time of donation. If a third party donates the use of equipment or space in a building but retains title, the contribution is valued at the fair market rental value of the equipment or space.
- Donated equipment, buildings and land. If a third party donates equipment, buildings or land, and the title passes to the grantee, the amount that is allowable for purposes of cost sharing or matching depends on whether the grant is for capital or operating expenditures.
- Grants for capital expenditures. If the purpose of the grant is to assist the grantee in acquiring equipment, buildings or land, the total market value of the property at the time of donation may be claimed.
- Grants for current operations. If the purpose of the grant is to support activities that require the use of equipment, buildings or land, cost sharing or matching cannot be claimed for the donated land, nor can the donated equipment or building be treated as third-party in-kind contributions. Instead, depreciation or use allowances based on the market value of the donations are allowable costs incurred by the grantee. Such depreciation or use allowance is determined and allocated according to the cost principles in the same manner as depreciation or use allowances for property purchased by the grantee and therefore is usually treated as indirect costs.

If the federal grantor agency approves, the fair rental rate of the donated land and the full market value of the equipment or buildings at the time it is donated may be considered cost-sharing or matching as third-party in-kind contributions. Approval is given only if purchase of the equipment or building or actual rental of the land would have been approved as an allowable cost.

- Appraisal of real property. In some cases, the market value of land or a building of the fair rental rate of land or space in a building must be determined. As a precondition to allowability for cost-sharing or matching purposes, the federal agency may require that the market value or fair rental rate be determined by a certified real property appraiser (of by a representative of the U.S. General Services Administration, if available), and that the value or rate be certified by the responsible official of the grantee.
- Records for third-party contributions. The most common problem with third-party in-kind contributions is lack of documentation. Grantees should ensure that all third-party in-kind contributions are supported by documentation.
- The grantee records must show how it arrived at the valuation places on third-party in-kind contributions. For example, the quantity and allocability of volunteer services must be supported, the extent feasible, by the same methods that the grantee uses for its own employees performing similar services. If, for instance, a grantee's employees use a time clock, volunteers performing similar work must do the same.

Budget Guidance for Proposed Expenses and Match

The following items are listed as examples of the kinds of expenses to include in each budget category. Expenses are not limited to these items. Please call the Department at (573) 751-7428 for assistance if questions arise.

Salaries: For personnel compensated directly by the grant funds or used as match. If contracting

with another entity to provide personnel, those expenses should be classified as

Contractual.

Fringe: Cost of fringe benefits.

Equipment: List each item costing \$5000 or more and price individually. Items costing less than

\$5000 are considered supplies.

Examples: Office equipment Office furniture

Mechanical equipment
Tools
Technical equipment
Computer equipment

Travel: Examples: Mileage Meals

Lodging

Supplies: Individual supply items costing between \$200 and \$5000, such as furniture, should be

listed individually.

Examples: Printing supplies Office supplies

Photography supplies
Educational supplies
Library materials

Technical supplies
Seed and fertilizer
Housekeeping supplies

Other: Examples: Advertising Software purchase

Telephone charges Prizes and awards
Utilities Meeting room rental

Equipment maintenance, repair or usage

Vehicle Rentals

Contractual: Examples: Legal, auditing and accounting services

Professional and technical services

Printing and binding Mailing services Photographic services

Detailed Budget by Category

Example Project

Project Budget Period xx/xx/xx - xx/xx/xx

| | Year 1 Year 2 Year 3 Year 4 Total | | | | | Tatal | Total | | | | |
|---------------------------------------|-----------------------------------|--------------|----------|----------|---------------|--------------|---------------|--------------|----------|--------------|----------------|
| Categories | hrs | 319 | Match | 319 | ır ∠ Match | 319 | เกิด Match | 319 | Match | Total 319 | Total Match |
| Salary/Fringe | | 313 | Match | 313 | Water | 319 | Match | 319 | Match | 319 | Water |
| Project Coordinator | 1040 | 20,150 | | 20,654 | | 21,170 | | 21,699 | | 83,673 | 0 |
| | | | | | | | | | | | 0 |
| Intern | 400 | 3,000 | 4 040 | 3,075 | 4 0 4 5 | 3,152 | 4 070 | 3,231 | 4 440 | 12,458 | J |
| Sanitarian | 60 | | 1,313 | | 1,345 | | 1,379 | | 1,413 | | 5,450 |
| Technician | 44 | | 961 | | 985 | | 1,010 | | 1,035 | | 3,991 |
| MDC Staff | 50 | | 750 | | 769 | | 788 | | 808 | | 3,115 |
| Media Consultant | 20 | | 150 | | 154 | | 158 | | 162 | | 624 |
| Water Monitors-8 | 320 | | 2,400 | | 2,460 | | 2,522 | | 2,585 | | 9,967 |
| Clean-up Volunteers-30 | 90 | | 675 | | 692 | | 709 | | 727 | | 2,803 |
| Planting Volunteers-20 | 160 | | 1,200 | | 1,230 | | 1,261 | | 1,292 | | 4,983 |
| Educ. Volunteers-10 | 80 | | 600 | | 615 | | 630 | | 646 | | 2,491 |
| Planning Volunteers-20 | 320 | | 2,400 | | 2,460 | | 2,522 | | 2,585 | 0 | 9,967 |
| Stabilization | 120 | | 540 | | 554 | | 567 | | 582 | 0 | 2,243 |
| Volunteers-15 | | | | | | | | | | | |
| Total Salary/Fringe | 2704 | \$23,150 | \$10,989 | \$23,729 | \$11,264 | \$24,322 | \$11,546 | \$24,930 | \$11,835 | \$96,131 | \$45,634 |
| T | | 500 | 0 | 540 | 0 | 505 | 0 | 500 | 0 | 0070 | 0 |
| Travel | o) | 500 | 0 | 513 | 0 | 525 | 0 | 538 | 0 | 2076 | 0 |
| (meals, lodging, mileage Total Travel | e <i>)</i> | \$500 | \$0 | \$513 | \$0 | \$525 | \$0 | \$538 | \$0 | \$2,076 | \$0 |
| Total Travel | | \$500 | ψU | क्ठाउ | ψU | \$525 | ψU | \$530 | φυ | \$2,076 | φU |
| Supplies | | | | | | | | | | | |
| Promotion supplies | | 100 | | 100 | | 100 | | 100 | | 400 | 0 |
| Office supplies | | 150 | | 150 | | 125 | | 125 | | 550 | 0 |
| Newsletter supplies | | 200 | | 200 | | 150 | | 150 | | 700 | 0 |
| Demonstration supplies | I | 300 | | 300 | | 300 | | 300 | | 1,200 | 0 |
| Restoration supplies | | 400 | | 400 | | 400 | | 400 | | 1,600 | 0 |
| Total Supplies | | \$1,150 | \$0 | \$1,150 | \$0 | | \$0 | | \$0 | | \$0 |
| Total Supplies | | Ψ1,100 | ΨΟ | Ψ1,100 | ΨΟ | Ψ1,075 | ΨΟ | Ψ1,070 | ΨΟ | ψτ,του | ΨΟ |
| Contractual | | | | | | | | | | | |
| County Soil & Water Dis | trict | 21,135 | 38,025 | 21,663 | 38,976 | 22,205 | 39,950 | 23,223 | 40,949 | 88,226 | 157,900 |
| Demonstrations | | 6,000 | 2,000 | 6,150 | 2,050 | | 2,101 | 6,461 | 2,154 | | 8,305 |
| BMP costs | | , , , , , , | 2,500 | 0 | 5,125 | | 5,253 | | 5,384 | | 18,262 |
| Total Contractual | | \$27,135 | , | \$27,813 | | | | | | \$113,141 | \$184,467 |
| | | • | • | - | • | | | | | • | , |
| Other | | | | | | | | | | | |
| Internet line charge | | 500 | | 513 | | 525 | | 538 | | 2,076 | 0 |
| Telephone | | 360 | | 369 | | 378 | | 388 | | 1,495 | 0 |
| Copying | | 500 | | 513 | | 525 | | 538 | | 2,076 | 0 |
| Slide Presentation | | 100 | | 0 | | 0 | | 0 | | 100 | 0 |
| Newsletters | | 2,000 | | 2,050 | | 2,101 | | 2,154 | | 8,305 | 0 |
| Education Materials | | 500 | | 513 | | 525 | | 538 | | 2,076 | 0 |
| Resource Center | | 100 | | 0 | | 0 | | 0 | | 100 | 0 |
| Event Promotion | | 1,000 | | 1,025 | | 1,051 | | 1,077 | | 4,153 | 0 |
| Trees | | 330 | | 338 | | 347 | | 355 | | 1,370 | Ö |
| Coliform Analysis | | 512 | | 525 | | 535 | | 551 | | 2,123 | Ö |
| Watershed Awards | | 100 | | 103 | | 105 | | 108 | | 416 | 0 |
| Total Other | | \$6,002 | \$0 | | \$0 | | \$0 | | \$0 | \$24,290 | \$0 |
| Total Costs | | \$57,937 | | | \$57,415 | | - | | | \$240,088 | \$230,101 |
| Total Budget for Project | | | | • | • | | • | | | • | \$470,189 |

Total Budget for Project \$470,189

Detailed Budget by Activity Example Project

(Project Budget Period)

| | | (1.10)001.2 | duget Periou) | | | |
|----------------------------|----------|-------------------------------|----------------------------------|------------------------------------|----------------------------------|------------------------|
| Component | Category | 319 Grant Federal Funds | Agencies Non-Federal Match | Volunteers Non-Federal Match | Citizens Non-Federal Match | Total Project Costs |
| Water Monitoring | Labor | 7,030 | 13,015 | 9,967 | 0 | 30,012 |
| | Expenses | 3,754 | 0 | 0 | 0 | 3,754 |
| | Total | 10,784 | 13,015 | 9,967 | 0 | 33,766 |
| Action Planning | Labor | 3,515 | 5,578 | 9,967 | 0 | 19,060 |
| | Expenses | 708 | 0 | 0 | | |
| | Total | 4,223 | 5,578 | 9,967 | 0 | 19,768 |
| Newsletter and | | | | | | |
| Newspaper Articles | Labor | 7,030 | 7,437 | 624 | | 15,091 |
| | Expenses | 10,331 | 0 | 0 | ~ | , |
| | Total | 17,361 | 7,437 | 624 | 0 | 25,422 |
| Educational | | | | | | |
| Presentations | Labor | 3,515 | 11,156 | 500 | | 15,171 |
| | Expenses | 818 | 0 | 0 | 0 | |
| | Total | 4,333 | 11,156 | 500 | 0 | 15,989 |
| Watershed Appreciation | Labor | 3,515 | 11,156 | 1,500 | 0 | 16,171 |
| Events | Expenses | 1,850 | 0 | 0 | | |
| Lvento | Total | 5,365 | 11,156 | 1,500 | 0 | 18,021 |
| l | | | | | | |
| Watershed Festivals | Labor | 5,273 | 7,437 | 491 | 0 | 13,201 |
| | Expenses | 2,204 | 0 | 0 | | , - |
| | Total | 7,477 | 7,437 | 491 | 0 | 15,405 |
| Awards to Residents | Labor | 1,771 | 0 | 0 | 0 | 1,771 |
| | Expenses | 813 | 0 | 0 | 0 | 813 |
| | Total | 2,584 | 0 | 0 | 0 | 2,584 |
| Stream Cleanups | Labor | 3,515 | 0 | 2,800 | 0 | 6,315 |
| • | Expenses | 708 | 0 | 0 | 0 | 708 |
| | Total | 4,223 | 0 | 2,800 | 0 | 7,023 |
| Stream Bank Stabilization | Labor | 19,165 | 13,015 | 2,240 | 0 | 34,420 |
| | Expenses | 5,122 | 0 | 0 | 0 | 5,122 |
| | Total | 24,287 | 13,015 | 2,240 | 0 | 39,542 |
| Riparian Area Tree Plantin | ng Labor | 21,610 | 5,578 | 4,984 | 0 | 32,172 |
| | Expenses | 7,921 | 0 | , 0 | 0 | 7,921 |
| | Total | 29,531 | 5,578 | 4,984 | 0 | 40,093 |
| Distribution of BMP Info | Labor | 3,515 | 9,296 | 0 | 0 | 12,811 |
| 2.53.154.101.101 | Expenses | 5,516 | 0,230 | 0 | | 5,516 |
| | Total | 9,031 | 9,296 | | | |
| | | | | | | |

| Demonstration of BMPs | Labor | 22,017 | 25,889 | 0 | o | 47,906 |
|-----------------------------|-----------|-----------|----------|----------|-----------|---------|
| | Expenses | 33,506 | | 0 | 8,305 | 41,811 |
| Тс | otal | 55,523 | 25,889 | 0 | 8,305 | 89,717 |
| Technical Assistance of BMP | s Labor | 52,620 | 61,330 | 0 | 0 | 113,950 |
| | Expenses | 12,746 | 13,271 | 0 | 4,565 | 30,582 |
| Total | | 65,366 | 74,601 | 0 | 4,565 | 144,532 |
| Total Co | \$240,088 | \$184,158 | \$33,073 | \$12,870 | \$470,189 | |

Labor includes Contractual Labor and Project Salaries/Fringe

Non-Federal \$230,101 319 Federal \$240,088 Total Budget \$470,189

Major Nonpoint Source (NPS) Categories and Subcategories

| 1200 1300 1350 1400 | Non-irrigated Crop Production Irrigated Crop Production Specialty Crop Production (e.g., horticulture/citrus/nuts/fruits) Pasture Grazing Range Grazing Aquaculture | 1600 Ani | mal Feeding Operations |
|------------------------------|---|----------|--------------------------------------|
| 2000 Silv | iculture | 3000 Cor | estruction |
| | Harvesting/Residue Management | | Highways, Roads, Bridges |
| | Forest Management (e.g. pumped drainage/fertilization/pesticide application) | | Land Development or Redevelopment |
| 2300 | Road Construction/Maintenance | | |
| 2990 | Reforestation | | |
| 4000 Urb | an Runoff/Stormwater | 5000 Res | ource Extraction |
| | Municipal | | Surface Mining |
| | Commercial | | Subsurface Mining |
| _ | Residential (non-commercial | | Open Pit Mining |
| | automotive/pet waste/etc.) | | Placer Mining |
| 4400 | Illicit Connections/Illegal Hookups | | Dredge Mining |
| | Dry Weather Flows | | Petroleum Activities |
| | Highway/Road/Bridge Runoff | 5600 | Mill Tailings |
| | Post Development Erosion and | | Mine Tailings |
| | Sedimentation | | Abandoned Mine Drainage |
| 4650 | Salt Storage Sites | | Sand/Gravel Mining |
| 6000 Lan | d Disposal/Storage/Treatment | 7000 Hy | drologic Modification |
| | Wastewater | • | Channelization |
| | Landfills | | Channel Erosion/Incision |
| | Inappropriate Waste Disposal | | Dredging Dredging |
| | Industrial Land Management | | Dam Construction |
| | On-site/Decentralized Wastewater | | Upstream Impoundment |
| 0300 | Treatment | | Flow Regulations/Modification |
| 6600 | Hazardous Waste | | Other Habitat Modification |
| | Septage Disposal | | Removal of Riparian Vegetation |
| | Waste Storage/Storage Tank Leaks | 7700 | Streambank or shoreline |
| 3000 | (above ground) | , , 50 | Modification/Destabilization |
| 6900 | Waste Storage/Storage Tank Leaks | 7800 | Drainage/Filling of Wetlands |
| | (underground) | | Groundwater Withdrawal |
| | ` ' | | |

7900 Marinas and Recreational Boating 8000 Other NPS Pollution 7990 Pumpouts 8050 Erosion for Derelict Land 7991 Sanitary On-Vessel Discharges 8100 Atmospheric Deposition 7992 Other On-Vessel Discharges 8400 Spills 7994 Boat Construction 8600 Natural Sources 7995 Boat Maintenance 8910 Groundwater Loadings 7996 Shoreline Erosion 8950 Wildlife 7997 Fueling 7998 Dredging 8500 Historical Pollutants 8700 Turf Management 8700 Recreation and Tourism Activities 8590 Contaminated Sediments 8591 Clean Sediments 8710 Golf Courses 8592 Other Historical Pollutants 8790 Yard Maintenance 8791 Other Turf Management

0000 All Sources listed Above

Source: USEPA Grant Reporting and Tracking System Guidance, 2003.

Functional Category of Activity Pick List

Restoration/Protection/Prevention

- 010 Corrective Action (other than BMP implementation)
- 011 BMP Design/Implementation
- 012 BMP Performance Assessment
- 013 Animal Manure/Litter Management Projects
- 014 Livestock Control Projects
- 016 Vegetation Management/Revegetation
- 017 Stream Bank Stabilization
- 018 Grade Stabilization
- 019 Sediment Control
- 020 Stormwater Discharge Design/Control
- 021 Erosion Control Projects
- 022 Acquisition of Wetland Resources
- 023 Wetland Restoration/Protection
- 024 Acquisition of Riparian Resources
- 025 Riparian Projects
- 026 Fisheries Projects
- 027 Other Restoration/Protection/Prevention

Education/Information Programs

- 100 Statewide Education/Information Programs
- 600 Local (Specific Target)

Technical Assistance

- 200 Technical Assistance to State/Local
- 201 Nonpoint Source Program Overall Coordination/Management
- 202 Nonpoint Source Project Staffing
- 230 Technology Transfer to State/Local Government
- 290 Other Technical Assistance Activity

Regulatory/Enforcement

- 300 Certification Activities
- 310 Program Development Activities
- 320 Inspection Activities
- 330 Ordinance Development
- 340 Enforcement Activities

Planning

- 401 Nutrient Management Planning
- 402 Watershed Modeling Planning
- 403 Stormwater Management Planning
- 404 Watershed Restoration Action Strategy (WRAS)/Watershed Planning
- 410 Geographic Information Systems
- 420 Develop/Revise Basin Plans
- 430 TMDLs
- 440 Nonstructural Planning (for new development)
- 450 Livestock Grazing System Planning
- 490 Other Planning

Water Quality Assessment/Monitoring

- 501 Instream Flow Assessments
- 502 Assessments for Compliance with Water Quality Standards
- 503 Wetland Assessment/Monitoring
- 504 Riparian Assessment/Monitoring
- 505 TMDL Assessments
- 510 Water Quality Trend Assessment
- 520 Water Quality Problem Identification
- 590 Other Water Quality Assessment/ Monitoring
- 600 BMP Effectiveness Monitoring
- 610 Biological Monitoring
- 620 Watershed Assessments

319(h) National Monitoring Project

800 319(h) National Monitoring Project

Other Activities

- 910 Groundwater (all groundwater activities)
- 920 Antidegradation Activities and Analyses
- 930 Soil Analyses

Key Elements Critical to a Watershed Management Plan

Planning and development of watershed plans should be done in cooperation with local communities, soil and water conservation districts, agricultural producers, and other watershed stakeholders resulting in locally led partnerships to implement the plans. Any application for funding to implement a Watershed Management Plan must address the nine critical watershed elements as identified by the EPA in 2003.

EPA believes that these nine elements are critical to assure that public funds to address impaired waters are used effectively. (Appendix C of the May 1996 Nonpoint Source Guidance further discusses a "well-designed watershed implementation plan", which specifically discusses most of the elements listed below.)

- a. An identification of the sources or groups of similar sources that will need to be controlled to achieve the load reductions estimated established in this watershed-based plan (and to achieve any other watershed goals identified in the watershed-based plan), as discussed in item (b) immediately below. Sources that need to be controlled should be identified at the significant subcategory level with estimates of the extent to which they are present in the watershed (e.g., X numbers of dairy cattle feedlots needing upgrading, including a rough estimate of the number of cattle per facility; Y acres of row crops needing improved nutrient management or sediment control; or Z linear miles of eroded streambank needing remediation).
- b. An estimate of the load reductions expected for these management measures described under paragraph (c) below (recognizing the natural variability and the difficulty in precisely predicting the performance of management measures over time). Estimates should be provided at the same level of as in item (a) above (e.g., the total load reduction expected for dairy cattle feedlots; row crops; or eroded streambanks);
- c. A description of the NPS management measures that will need to be implemented to achieve the load reductions estimated established under paragraph (b) above (as well as to achieve other watershed goals identified in this watershed-based plan), and an identification (using a map or a description) of the critical areas in which those measures will be needed to implement this plan;
- d. An estimate of the sources of technical and financial assistance needed, the associated costs, and/or authorities that will be relied upon, to implement this plan. As sources of funding, States should consider the use of their 319 programs, State Revolving Funds, USDA's Environmental Quality Incentives Program and Conservation Reserve Program, and other relevant Federal, State, local and private funds that may be available to assist in implementing this plan;
- e. An information/education component that will be used to enhance public understanding of the project and encourage their early and continued participation in selecting, designing, and implementing the NPS management measures that will be implemented.
- f. A schedule for implementing the NPS management measures identified in this plan that is reasonably expeditious;
- g. A description of interim, measurable milestones for determining whether NPS management measures or other control actions are being implemented;
- h. A set of criteria that can be used to determine whether loading reductions are being achieved over time and substantial progress is being made towards attaining water quality standards and, if not, the criteria for determining whether this watershed-based plan needs to be revised or, if a NPS TMDL has been established, whether the NPS TMDL needs to be revised.
- i. A monitoring component to evaluate the effectiveness of the implementation efforts measured against the criteria established under item (h) immediately above.

319 Application Packet Assistance Sheet

(#'s in parenthesis refer to the Application Sheet Number)

319 Grant Application Packet - Currently Disabled until release of new RFP

http://www.dnr.mo.gov/wpscd/wpcp/nps/rfp/index.html

Missouri NPS Management Plan

http://www.dnr.state.mo.us/wpscd/wpcp/wpcnpsmp.htm

Missouri's Hydrologic Unit Codes HUC (#8)

http://outreach.missouri.edu/mowin/watersheds2/congressindex.html

Missouri's 303(d) of Impaired Waters (#14)

http://www.dnr.state.mo.us/wpscd/wpcp/tmdl/tmdl list.pdf

Flowchart for Missouri Unified Watershed Assessment

http://www.cares.missouri.edu/mowiap/finalflow.html

HU Point Ranking for Restoration Priority

http://www.cares.missouri.edu/mowiap/hu point ranking for restoration.htm

Missouri Watershed Plans (#15)

http://outreach.missouri.edu/mowin/trainingwqmps/localplans.html

Ongoing Missouri Watershed Projects

http://www.cerc.usgs.gov/mowin/ongoing projects/onindex.htm

AgNPS SALT Program Info

http://outreach.missouri.edu/mowin/agnpsalt/agnpsindex.html

Watershed Characteristics (#16)

Biotic Assessment of Missouri Basins

http://www.cares.missouri.edu/mowiap/biotic.htm

Missouri Watershed Restoration Schedule

http://www.cares.missouri.edu/mowiap/apndx4.html

303(d) Listed Missouri Waters

http://www.dnr.state.mo.us/wpscd/wpcp/tmdl/tmdl list.pdf

Water Quality Problem (#17)

TMDL Information Sheets

http://www.dnr.state.mo.us/wpscd/wpcp/tmdl/info/wpc-tmdl-info.htm

319 NPS Implementation Grant Website

http://www.dnr.state.mo.us/wpscd/wpcp/nps/index.html

Pollutant(s) being addressed in Project (#18)

http://www.epa.gov/owow/nps/categories.html

STEPL (Spreadsheet Tool for Estimating Pollutant Load)

http://it.tetratech-ffx.com/stepl/

NPS Category & Subcategory (#19)

http://www.epa.gov/owow/nps/categories.html

Attachment G

Missouri Department of Natural Resources, Water Protection Program Website http://www.dnr.mo.gov/wpscd/wpcp/index.html

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